(11) EP 1 529 974 A3

(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3: 15.03.2006 Bulletin 2006/11

(51) Int Cl.: F16C 29/04 (2006.01) F16C 43/06 (2006.01)

F16C 33/38 (2006.01)

(43) Date of publication A2: 11.05.2005 Bulletin 2005/19

(21) Application number: 04023801.6

(22) Date of filing: 06.10.2004

(84) Designated Contracting States:

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR Designated Extension States:

AL HR LT LV MK

(30) Priority: 05.11.2003 US 703194

(71) Applicant: Danly IEM,
Division of Connell Limited Partnership
Boston,
Massachusetts 02110 (US)

(72) Inventors:

Taylor, Brian Lee
 Medina, Ohio 44256 (US)

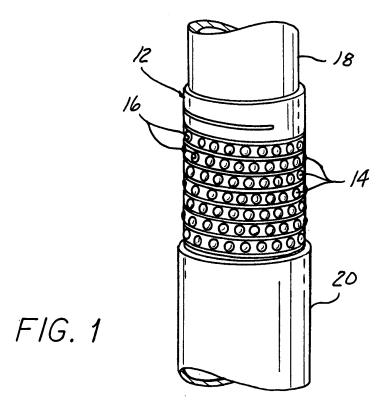
Heinze, William Fred
Beaver Dam, Wisconsin 53916 (US)

(74) Representative: Schaumburg, Thoenes, Thurn, Landskron Patentanwälte Postfach 86 07 48 81634 München (DE)

(54) Post ball bearing and method of manufacture

(57) A post bearing (10) and method of manufacture in which bearing balls (14) are loaded into a series of pocket holes (16) arranged along a helical pattern in a

sleeve cage (12). A single groove (26) is swaged into the outside diameter of the sleeve intermediate the ball turns to capture the balls in the pocket holes.



Printed by Jouve, 75001 PARIS (FR)

EP 1 529 974 A3

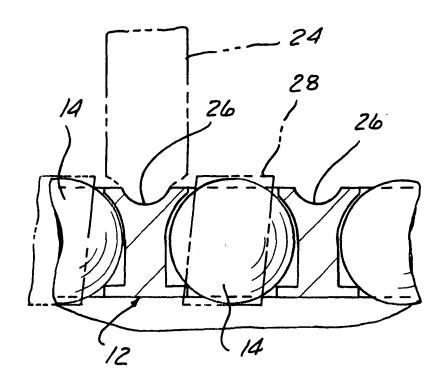


FIG. 3



EUROPEAN SEARCH REPORT

Application Number EP 04 02 3801

	Citation of document with indicat	ion, where appropriate.	Relevant	CLASSIFICATION OF THE	
Category	of relevant passages	ion, more appropriate,	to claim	APPLICATION (IPC)	
Υ	US 2 997 778 A (BARKLE 29 August 1961 (1961-0	8-29)	1-4	F16C29/04 F16C33/38	
A	* columns 2-4; figures	4,/ ^ 	5,6	F16C43/06	
Y	CH 218 957 A (FIRMA: C 15 January 1942 (1942- * page 3, line 93 - pa * page 4, lines 12-19,	01-15) ge 4, line 2 *	1-4		
A	US 5 345 679 A (LENNON 13 September 1994 (199				
A	US 1 330 158 A (ARNOLD 10 February 1920 (1920				
A	US 848 776 A (A.T.SISS 2 April 1907 (1907-04-				
				TECHNICAL FIELDS SEARCHED (IPC)	
				F16C	
				100	
	The present search report has been	drawn up for all claims			
	Place of search	Date of completion of the search		Examiner	
	The Hague	23 January 2006	BEG	BEGUIN, C	
X : part Y : part docu	ATEGORY OF CITED DOCUMENTS icularly relevant if taken alone icularly relevant if combined with another ument of the same category inological background	T : theory or principle E : earlier patent doou after the filing date D : document cited in t L : document cited for	ment, but publis the application other reasons		
O : non	-written disclosure	& : member of the san			

ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

EP 04 02 3801

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

23-01-2006

Patent document cited in search report	:	Publication date		Patent family member(s)	Publicatio date
US 2997778	Α	29-08-1961	NONE		
CH 218957	Α	15-01-1942	NONE		
US 5345679	A	13-09-1994	NONE		
US 1330158	Α	10-02-1920	NONE		
US 848776	Α		NONE		

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82